

HYDROSTATIC POWER

One of the best application of our twin-rotor TZUY TURBINE for transportation vehicle is in the ocean-going ship or cargo ship. It can be used to propel or push the ship forward to assist the marine engine and therefore it can help reduce the consumption of fossil fuels that are dangerous to the environment. Or if the hydrostatic power has enough power to spin the twin-rotor TZUY TURBINE and the propeller to move or push the ship forward without using the marine engine, it would be a big contribution to the shipping industry and the world's economy.

Transporting goods from country to country will become very cheap if hydrostatic power is realized. Any kind of assistance from the rich countries can be donated to poor nations with minimal expenses especially if the contents of the cargo are bulky and heavy.

We know that below the surface of the sea or ocean the water pressure is enormous. If the twin-rotor TZUY TURBINE is submerged supported by a post or rod, at 30 meters depth the water (hydrostatic) pressure is 60 pounds per square inch absolute. If every twin-rotor TZUY TURBINE has a total blade surface area on the power side of 100 square inches multiplied by 60 psi, at 30 meters depth there will be a 6,000 lbs or 2,721 kilograms of rotational force to spin a single propeller. If the ship has several TZUY TURBINE to spin the propellers and has the power to move or push the ship at desired speed, no more marine engines will be used. It will just serve its purpose in shallow waters.

The hydroelectric power plants are designed to produce electrical energy and are permanent structures. If we want to boost the electrical power output without changing its design we can be able to do it by using our twin-rotor TZUY TURBINE.

Behind the dam is a reservoir of water that has a water surface elevation of 100 meters or more. At the bottom of the water reservoir has a great source of power which is stagnant or almost stagnant. This is called the hydrostatic power which is not harnessed yet until now. This hydrostatic power can be used to spin the submerged twin-rotor TZUY TURBINE. The high pressure hydraulic fluid produced in the rotation can be used to spin another set of twin-rotor TZUY TURBINE on land that is coupled to the electric generator to produce clean environment-friendly, large-scale unlimited electrical energy.